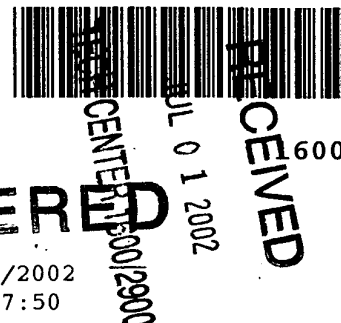


1631

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/555,275A

DATE: 06/11/2002
TIME: 16:07:50

Input Set : A:\Substitute Sequence Listing.050179.0081.txt
Output Set: N:\CRF3\06112002\I555275A.raw

3 <110> APPLICANT: Commonwealth Scientific and Industrial Research Organisation
5 <120> TITLE OF INVENTION: Method of Designing Agonists and Antagonists to IGF Receptor
7 <130> FILE REFERENCE: 050179-0081
9 <140> CURRENT APPLICATION NUMBER: 09/555,275A
10 <141> CURRENT FILING DATE: 2000-05-26
12 <150> PRIOR APPLICATION NUMBER: PCT/AU98/00998
13 <151> PRIOR FILING DATE: 1998-11-27
15 <150> PRIOR APPLICATION NUMBER: PP2598
16 <151> PRIOR FILING DATE: 1998-03-25
18 <150> PRIOR APPLICATION NUMBER: PP0585
19 <151> PRIOR FILING DATE: 1997-11-27
21 <160> NUMBER OF SEQ ID NOS: 16
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 150
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
32 Glu Ile Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu
33 1 5 10 15
36 Lys Arg Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu
37 20 25 30
40 Leu Ile Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu
41 35 40 45
44 Thr Val Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu
45 50 55 60
48 Ser Leu Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys
49 65 70 75 80
52 Leu Phe Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys
53 85 90 95
56 Asp Ile Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg
57 100 105 110
60 Ile Glu Lys Asn Ala Asp Leu Cys Tyr Leu Ser Thr Val Asp Trp Ser
61 115 120 125
64 Leu Ile Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro
65 130 135 140
68 Pro Lys Glu Cys Gly Asp
69 145 150
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 157
74 <212> TYPE: PRT
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 2

RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/09/555,275A

TIME: 16:07:50

Input Set : A:\Substitute Sequence Listing 050179.0081.txt

Output Set: N:\CRF3\06112002\I555275A.raw

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79 His Leu Tyr Pro Gly Glu Val Cys Pro Gly Met Asp Ile Arg Asn Asn
80 1 5 10 15
83 Leu Thr Arg Leu His Glu Leu Glu Asn Cys Ser Val Ile Glu Gly His
84 20 25 30
87 Leu Gln Ile Leu Leu Met Phe Lys Thr Arg Pro Glu Asp Phe Arg Asp
88 35 40 45
91 Leu Ser Phe Pro Lys Leu Ile Met Ile Thr Asp Tyr Leu Leu Leu Phe
92 50 55 60
95 Arg Val Tyr Gly Leu Glu Ser Leu Lys Asp Leu Phe Pro Asn Leu Thr
96 65 70 75 80
99 Val Ile Arg Gly Ser Arg Leu Phe Phe Asn Tyr Ala Leu Val Ile Phe
100 85 90 95
103 Glu Met Val His Leu Lys Glu Leu Gly Leu Tyr Asn Leu Met Asn Ile
104 100 105 110
107 Thr Arg Gly Ser Val Arg Ile Glu Lys Asn Asn Glu Leu Cys Tyr Leu
108 115 120 125
111 Ala Thr Ile Asp Trp Ser Arg Ile Leu Asp Ser Val Glu Asp Asn His
112 130 135 140
115 Ile Val Leu Asn Lys Asp Asn Glu Glu Cys Gly Asp
116 145 150 155

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119 <210> SEQ ID NO: 3

120 <211> LENGTH: 165

121 <212> TYPE: PRT

122 <213> ORGANISM: Homo sapiens

124 <220> FEATURE:

125 <221> NAME/KEY: MISC_FEATURE

126 <222> LOCATION: (15)..(24)

127 <223> OTHER INFORMATION: Protein sequence known but not provided in Figure 6a

130 <220> FEATURE:

131 <221> NAME/KEY: MISC_FEATURE

132 <222> LOCATION: (109)..(110)

133 <223> OTHER INFORMATION: Protein sequence known but not provided in Figure 6a

136 <400> SEQUENCE: 3

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W--> 138 Leu Glu Glu Lys Lys Val Cys Gln Gly Thr Ser Asn Lys Leu Xaa Xaa
139 1 5 10 15
W--> 142 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Leu Ser Leu Gln Arg Met Phe Asn
143 20 25 30
146 Asn Cys Glu Val Val Leu Gly Asn Leu Glu Ile Thr Tyr Val Gln Arg
147 35 40 45
150 Asn Tyr Asp Leu Ser Phe Leu Lys Thr Ile Gln Glu Val Ala Gly Tyr
151 50 55 60
154 Val Leu Ile Ala Leu Asn Thr Val Glu Arg Ile Pro Leu Glu Asn Leu
155 65 70 75 80
158 Gln Ile Ile Arg Gly Asn Met Tyr Tyr Glu Asn Ser Tyr Ala Leu Ala
159 85 90 95
W--> 162 Val Leu Ser Asn Tyr Asp Ala Asn Lys Thr Gly Leu Xaa Xaa Lys Pro
163 100 105 110
166 Met Arg Asn Leu Gln Glu Ile Leu His Gly Ala Val Arg Phe Ser Asn
167 115 120 125

```

RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/09/555,275A

TIME: 16:07:50

Input Set : A:\Substitute Sequence Listing 050179.0081.txt

Output Set: N:\CRF3\06112002\I555275A.raw

```

170 Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val
171      130                      135                      140
174 Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu
175 145                      150                      155                      160
178 Gly Ser Cys Gln Lys
179                      165
182 <210> SEQ ID NO: 4
183 <211> LENGTH: 167
184 <212> TYPE: PRT
185 <213> ORGANISM: Homo sapiens
187 <220> FEATURE:
188 <221> NAME/KEY: MISC_FEATURE
189 <222> LOCATION: (11)..(17)
190 <223> OTHER INFORMATION: Protein sequence known but not provided in Figure 6a
193 <220> FEATURE:
194 <221> NAME/KEY: MISC_FEATURE
195 <222> LOCATION: (44)..(50)
196 <223> OTHER INFORMATION: Protein sequence known but not provided in Figure 6a
199 <400> SEQUENCE: 4
W--> 201 Lys Val Cys Asn Gly Ile Gly Ile Gly Glu Xaa Xaa Xaa Xaa Xaa Xaa
202 1                      5                      10                      15
W--> 205 Xaa Asn Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser
206                      20                      25                      30
W--> 209 Gly Asp Leu His Ile Leu Pro Val Ala Phe Arg Xaa Xaa Xaa Xaa Xaa
210                      35                      40                      45
W--> 213 Xaa Xaa Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val
214 50                      55                      60
217 Lys Glu Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg
218 65                      70                      75                      80
221 Thr Asp Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr
222                      85                      90                      95
225 Lys Gln His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr
226                      100                     105                     110
229 Ser Leu Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile
230                      115                     120                     125
233 Ile Ser Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys
234 130                      135                      140
237 Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg
238 145                      150                      155                      160
241 Gly Glu Asn Ser Cys Lys Ala
242                      165
245 <210> SEQ ID NO: 5
246 <211> LENGTH: 161
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 5
252 Lys Val Cys His Leu Leu Glu Gly Glu Lys Thr Ile Asp Ser Val Thr
253 1                      5                      10                      15
256 Ser Ala Gln Glu Leu Arg Gly Cys Thr Val Ile Asn Gly Ser Leu Ile

```

RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/09/555,275A

TIME: 16:07:50

Input Set : A:\Substitute Sequence Listing 050179.0081.txt

Output Set: N:\CRF3\06112002\I555275A.raw

```

257          20          25          30
260 Ile Asn Ile Arg Gly Gly Asn Asn Leu Ala Ala Glu Leu Glu Ala Asn
261          35          40          45
264 Leu Gly Leu Ile Glu Glu Ile Ser Gly Tyr Leu Lys Ile Arg Arg Ser
265          50          55          60
268 Tyr Ala Leu Val Ser Leu Ser Phe Phe Arg Lys Leu Arg Leu Ile Arg
269 65          70          75          80
272 Gly Glu Thr Leu Glu Ile Gly Asn Tyr Ser Phe Tyr Ala Leu Asp Asn
273          85          90          95
276 Gln Asn Leu Arg Gln Leu Trp Asp Trp Ser Lys His Asn Leu Thr Ile
277          100          105          110
280 Thr Gln Gly Lys Leu Phe Phe His Tyr Asn Pro Lys Leu Cys Leu Ser
281          115          120          125
284 Glu Ile His Lys Met Glu Glu Val Ser Gly Thr Lys Gly Arg Gln Glu
285          130          135          140
288 Arg Asn Asp Ile Ala Leu Lys Thr Asn Gly Asp Lys Ala Ser Cys Glu
289 145          150          155          160
292 Asn

```

296 <210> SEQ ID NO: 6

297 <211> LENGTH: 161

298 <212> TYPE: PRT

299 <213> ORGANISM: Homo sapiens

301 <400> SEQUENCE: 6

```

303 Lys Val Cys Glu Glu Glu Lys Lys Thr Lys Thr Ile Asp Ser Val Thr
304 1          5          10          15
307 Ser Ala Gln Met Leu Gln Gly Cys Thr Ile Phe Lys Gly Asn Leu Leu
308          20          25          30
311 Ile Asn Ile Arg Arg Gly Asn Asn Ile Ala Ser Glu Leu Glu Asn Phe
312          35          40          45
315 Met Gly Leu Ile Glu Val Val Thr Gly Tyr Val Lys Ile Arg His Ser
316          50          55          60
319 His Ala Leu Val Ser Leu Ser Phe Leu Lys Asn Leu Arg Leu Ile Leu
320 65          70          75          80
323 Gly Glu Glu Gln Leu Glu Gly Asn Tyr Ser Phe Tyr Val Leu Asp Asn
324          85          90          95
327 Gln Asn Leu Gln Gln Leu Trp Asp Trp Asp His Arg Asn Leu Thr Ile
328          100          105          110
331 Lys Ala Gly Lys Met Tyr Phe Ala Phe Asn Pro Lys Leu Cys Val Ser
332          115          120          125
335 Glu Ile Tyr Arg Met Glu Glu Val Thr Gly Thr Lys Gly Arg Gln Ser
336          130          135          140
339 Lys Gly Asp Ile Asn Thr Arg Asn Asn Gly Glu Arg Ala Ser Cys Glu
340 145          150          155          160
343 Ser

```

347 <210> SEQ ID NO: 7

348 <211> LENGTH: 150

349 <212> TYPE: PRT

350 <213> ORGANISM: Homo sapiens

352 <400> SEQUENCE: 7

RAW SEQUENCE LISTING

DATE: 06/11/2002

PATENT APPLICATION: US/09/555,275A

TIME: 16:07:50

Input Set : A:\Substitute Sequence Listing 050179.0081.txt

Output Set: N:\CRF3\06112002\I555275A.raw

```

354 Asp Leu Cys Pro Gly Thr Met Glu Glu Lys Pro Met Cys Glu Lys Thr
355 1 5 10 15
358 Thr Ile Asn Asn Glu Tyr Asn Tyr Arg Cys Trp Thr Thr Asn Arg Cys
359 20 25 30
362 Gln Lys Met Cys Pro Ser Thr Cys Gly Lys Arg Ala Cys Thr Glu Asn
363 35 40 45
366 Asn Glu Cys Cys His Pro Glu Cys Leu Gly Ser Cys Ser Ala Pro Asp
367 50 55 60
370 Asn Asp Thr Ala Cys Val Ala Cys Arg His Tyr Tyr Ala Gly Val
371 65 70 75 80
374 Cys Val Pro Ala Cys Pro Pro Asn Thr Tyr Arg Phe Glu Gly Trp Arg
375 85 90 95
378 Cys Val Asp Arg Asp Phe Cys Ala Asn Ile Leu Ser Ala Glu Ser Ser
379 100 105 110
382 Asp Ser Glu Gly Phe Val Ile His Asp Gly Glu Cys Met Gln Glu Cys
383 115 120 125
386 Pro Ser Gly Phe Ile Arg Asn Gly Ser Gln Ser Met Tyr Cys Ile Pro
387 130 135 140
390 Cys Glu Gly Pro Cys Pro
391 145 150
394 <210> SEQ ID NO: 8
395 <211> LENGTH: 153
396 <212> TYPE: PRT
397 <213> ORGANISM: Homo sapiens
399 <400> SEQUENCE: 8
401 Asp Ile Cys Pro Gly Thr Ala Lys Gly Lys Thr Asn Cys Pro Ala Thr
402 1 5 10 15
405 Val Ile Asn Gly Gln Phe Val Glu Arg Cys Trp Thr His Ser His Cys
406 20 25 30
409 Gln Lys Val Cys Pro Thr Ile Cys Lys Ser His Gly Cys Thr Ala Glu
410 35 40 45
413 Gly Leu Cys Cys His Ser Glu Cys Leu Gly Asn Cys Ser Gln Pro Asp
414 50 55 60
417 Asp Pro Thr Lys Cys Val Ala Cys Arg Asn Phe Tyr Leu Asp Gly Arg
418 65 70 75 80
421 Cys Val Glu Thr Cys Pro Pro Pro Tyr Tyr His Phe Gln Asp Trp Arg
422 85 90 95
425 Cys Val Asn Phe Ser Phe Cys Gln Asp Leu His His Lys Cys Lys Asn
426 100 105 110
429 Ser Arg Arg Gln Gly Cys His Gln Tyr Val Ile His Asn Asn Lys Cys
430 115 120 125
433 Ile Pro Glu Cys Pro Ser Gly Tyr Thr Met Asn Ser Ser Asn Leu Leu
434 130 135 140
437 Cys Thr Pro Cys Leu Gly Pro Cys Pro
438 145 150
441 <210> SEQ ID NO: 9
442 <211> LENGTH: 146
443 <212> TYPE: PRT
444 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/11/2002
PATENT APPLICATION: US/09/555,275A TIME: 16:07:51

Input Set : A:\Substitute Sequence Listing 050179.0081.txt
Output Set: N:\CRF3\06112002\I555275A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 15,16,17,18,19,20,21,22,23,109,110
Seq#:4; Xaa Pos. 11,12,13,14,15,16,17,44,45,46,47,48,49,50

VERIFICATION SUMMARY

DATE: 06/11/2002

PATENT APPLICATION: US/09/555,275A

TIME: 16:07:51

Input Set : A:\Substitute Sequence Listing 050179.0081.txt

Output Set: N:\CRF3\06112002\I555275A.raw

L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:96
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48